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FIG.1

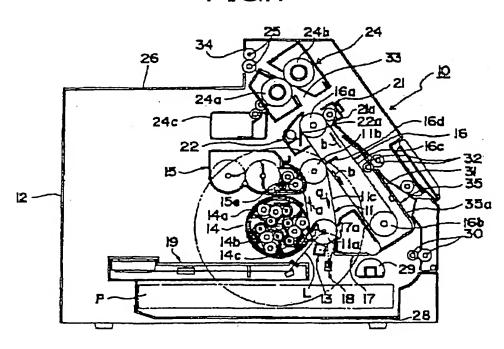


FIG.2

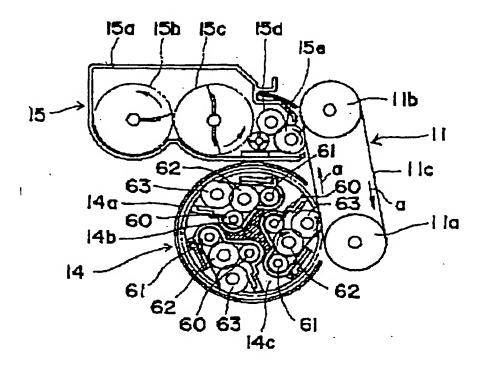


FIG.3A

Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR

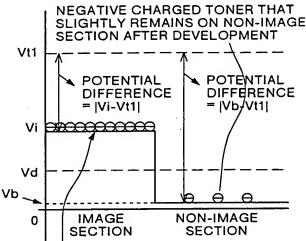
Vi: SURFACE POTENTIAL OF

IMAGE SECTION OF PHOTO SENSOR

Vt1: SURFACE POTENTIAL OF

INTERMEDIATE TRANSFER UNIT

Vd: DEVELOPING BIAS POTENTIAL



NEGATIVE CHARGED TONER AFTER DEVELOPMENT

IN THE INSTANCE OF NORMAL DEVELOPMENT OF NEGATIVE CHARGED TONER WHEN PHOTO SENSOR IS CHARGED IN POSITIVE

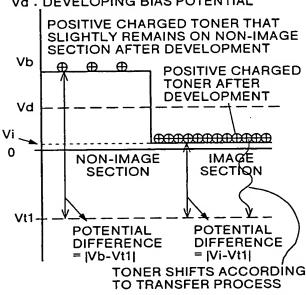
FIG.3C

Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR

VI: SURFACE POTENTIAL OF IMAGE SECTION OF PHOTO SENSOR

Vt1: SURFACE POTENTIAL OF INTERMEDIATE TRANSFER UNIT

Vd: DEVELOPING BIAS POTENTIAL



IN THE INSTANCE OF INVERSE DEVELOPMENT OF POSITIVE CHARGED TONER WHEN PHOTO SENSOR IS CHARGED IN POSITIVE

FIG.3B

Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR

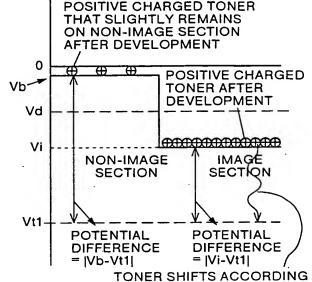
Vi: SURFACE POTENTIAL OF

IMAGE SECTION OF PHOTO SENSOR

Vt1: SURFACE POTENTIAL OF

INTERMEDIATE TRANSFER UNIT

Vd: DEVELOPING BIAS POTENTIAL



TO TRANSFER PROCESS IN THE INSTANCE OF NORMAL

DEVELOPMENT OF POSITIVE CHARGED TONER WHEN PHOTO SENSOR IS CHARGED IN NEGATIVE

FIG.3D

Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR VI: SURFACE POTENTIAL OF IMAGE SECTION OF PHOTO SENSOR

Vt1: SURFACE POTENTIAL OF INTERMEDIATE TRANSFER UNIT

Vd: DEVELOPING BIAS POTENTIAL

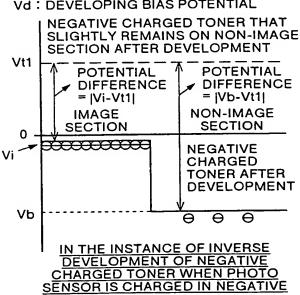


FIG.4

Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR

VI : SURFACE POTENTIAL OF IMAGE SECTION OF PHOTO SENSOR

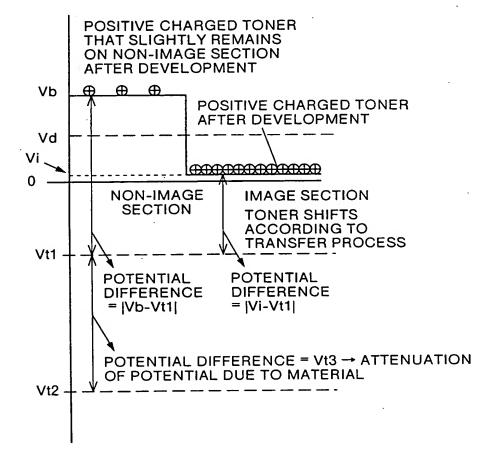
Vt1: SURFACE POTENTIAL OF INTERMEDIATE TRANSFER UNIT

Vd: DEVELOPING BIAS POTENTIAL

Vt2: APPLIED VOLTAGE TO INTERMEDIATE TRANSFER UNIT

Vt3: VOLTAGE ATTENUATION DUE TO MATERIAL THAT CONSTITUTES

INTERMEDIATE TRANSFER UNIT



OBLON, SPIVAK, ET AL DOCKET #: 250970US2CONT INV: Sadayuki IWAI SHEET 4 OF 7

4/7

FIG.5

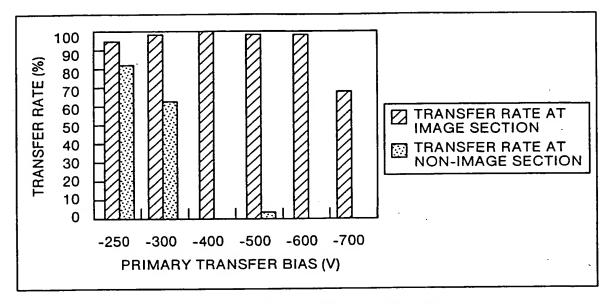


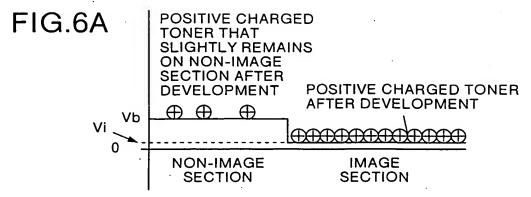
IMAGE SECTION: SATISFACTORY TRANSFER AREA IS WHERE BIAS IS -600 V OR ABOVE

NON-IMAGE SECTION: STAINED TEXTURE IS NOT TRANSFERRED

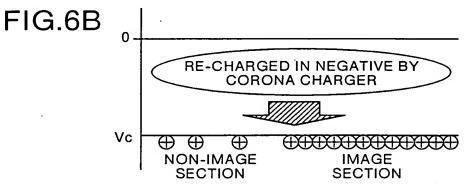
IN AREA WHERE BIAS IS -400 V OR BELOW

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5/7



Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR VI: SURFACE POTENTIAL OF IMAGE SECTION OF PHOTO SENSOR Vt1: SURFACE POTENTIAL OF INTERMEDIATE TRANSFER UNIT

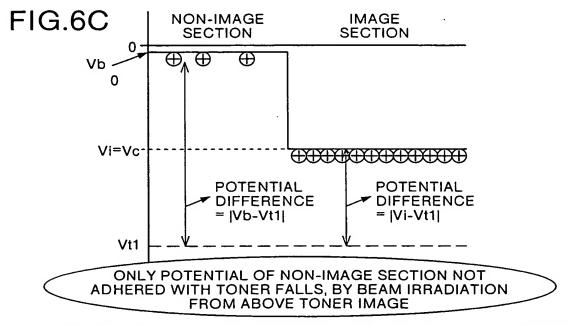


Vb: SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR

VI : SURFACE POTENTIAL OF IMAGE SECTION OF PHOTO SENSOR

Vt1: SURFACE POTENTIAL OF INTERMEDIATE TRANSFER UNIT

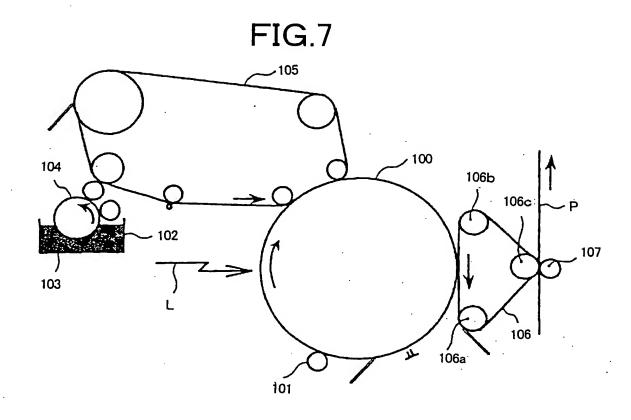
Vc: SURFACE POTENTIAL AFTER RE-CHARGING

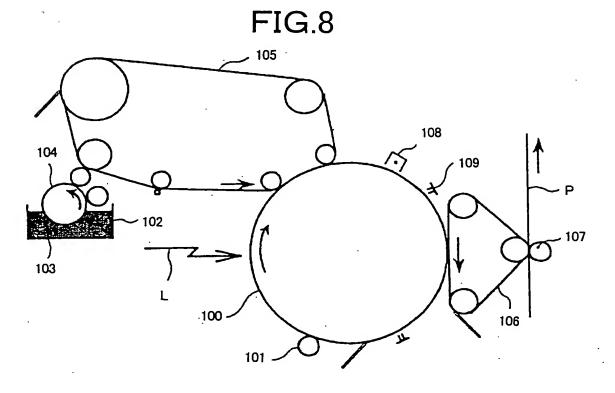


Vb : SURFACE POTENTIAL OF NON-IMAGE SECTION OF PHOTO SENSOR

VI: SURFACE POTENTIAL OF IMAGE SECTION OF PHOTO SENSOR VII: SURFACE POTENTIAL OF INTERMEDIATE TRANSFER UNIT

Vc : SURFACE POTENTIAL OF INTERMEDIATE TRANSFER





OBLON, SPIVAK, ET AL DOCKET #: 250970US2CONT INV: Sadayuki IWAI SHEET 7_ OF_7_

7/7

FIG.9

